



Gulf of Mexico Harmful Algal Bloom Bulletin

22 March 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

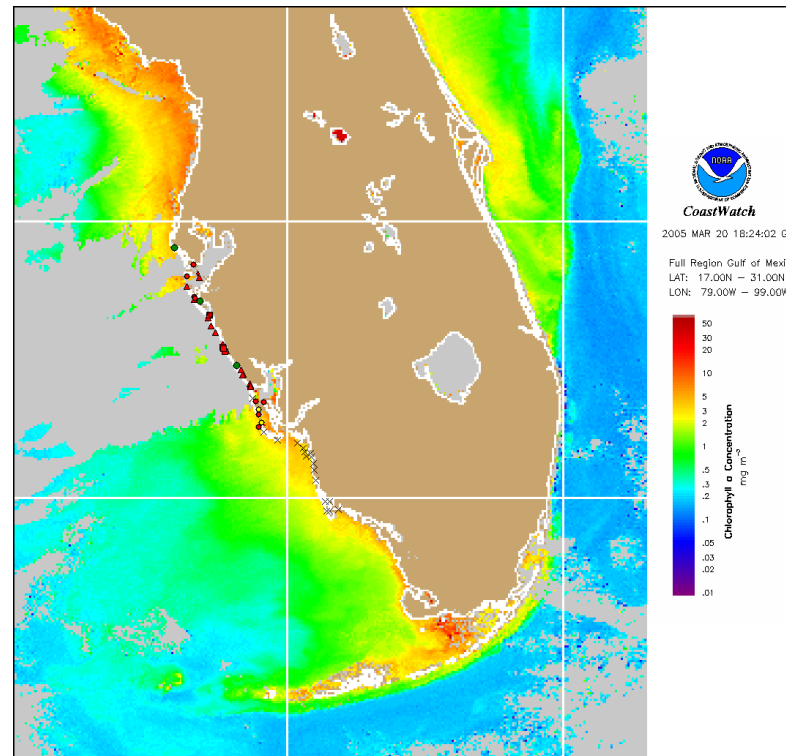
Last bulletin: March 17, 2005

Conditions: A harmful algal bloom has been identified from southern Pinellas to northern Lee counties. Low impacts are possible at southern Pinellas and northern Lee counties through Wednesday. Within Manatee and Sarasota counties, patchy moderate to high impacts are expected Tuesday and Wednesday, and low impacts on Thursday.

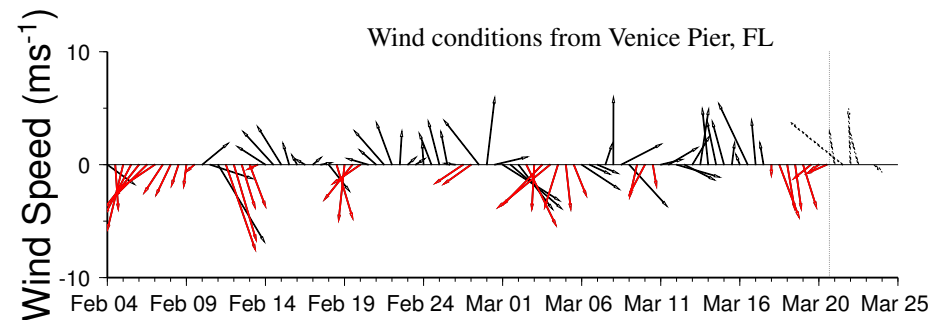
Analysis: A harmful algal bloom persists from southern Pinellas to Lee Counties. Between March 14-18th, high concentrations of *Karenia brevis* were reported offshore of New Pass and medium concentrations were found at the mouth of Tampa Bay and onshore at New Pass. Many samples nearshore of Captiva and Sanibel showed very low or not present concentrations. As of March 17th, *K. brevis* was not present Collier County. Continued southerly winds will likely slow the southern transport. Southerlies to westerlies Tuesday and Wednesday may cause moderate to high beach impacts.

Keys: Present imagery does not indicate a bloom in the vicinity of the March 14 medium concentration.

-Fenstermacher & Fisher



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



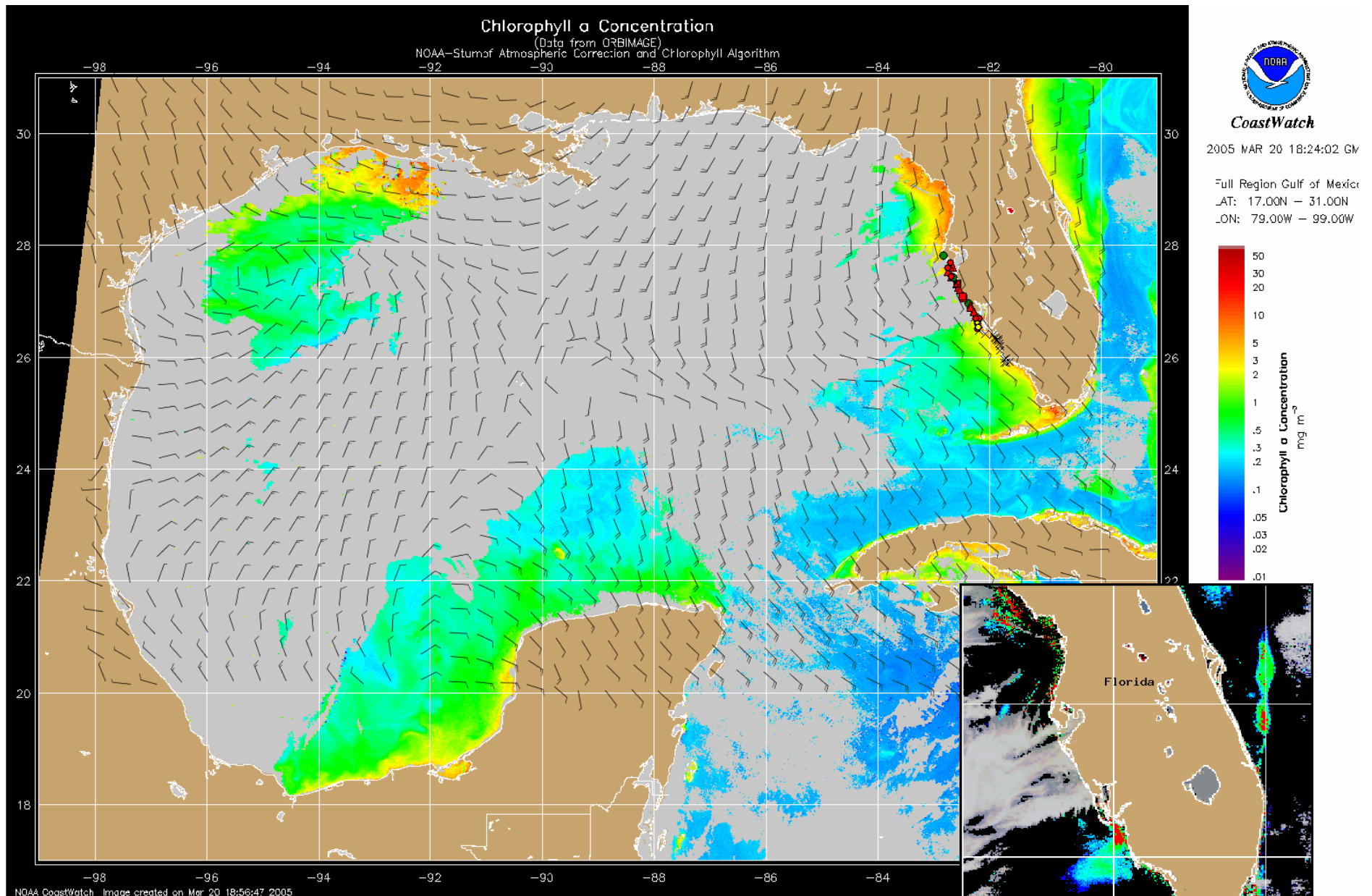
Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Southeast winds today followed by southerlies Tuesday and southwesterlies to westerlies Wednesday (10-15 knots; 5-8 m/s). Light, variable and onshore winds on Thursday.

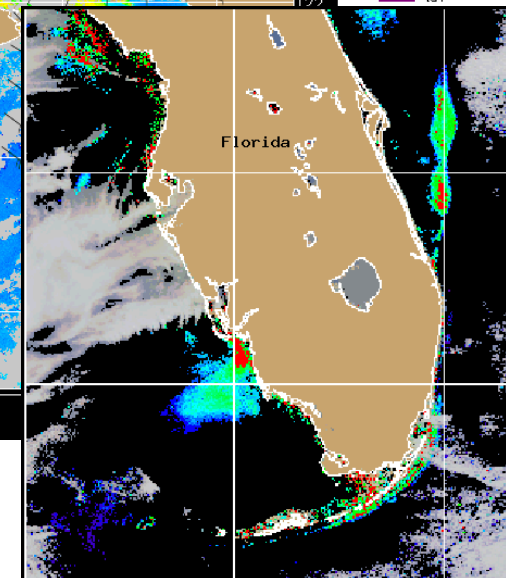
Keys: South to southeast winds through Thursday (10-15 knots; 5-8 m/s).

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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Chlorophyll concentration from satellite and forecast winds for March 23, 2005 06Z with cell concentration sampling data from March 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Blooms shown in red (see p. 1 analysis and image for interpretation)

